## **Amendments to the Claims**

1. (Original) An epilepsy model animal (CHRNA4:S284L) developing spontaneous epileptic seizure during sleep, which is a nonhuman animal established by ontogenesis of a totipotent cell into which a polynucleotide encoding nonhuman mutant CHRNA4 is introduced and having said polynucleotide in its somatic chromosome, or a progeny of the nonhuman animal,

wherein said nonhuman mutant CHRNA4 has the corresponding mutation of human mutant CHRNA4 in which the 284th Ser of SEQ ID NO: 1 is substituted by Leu.

- **2.** (**Original**) The epilepsy model animal (CHRNA4:S284L) of claim 1, wherein the polynucleotide encoding the nonhuman mutant CHRNA4 is fused with a polynucleotide corresponding to a promoter region of a gene specifically expressing in cerebrum cortex and hippocampus.
- 3. (Currently amended) The epilepsy model animal (CHRNA4:S284L) of claim 1-or 2, wherein the nonhuman animal is a rat, and the polynucleotide encodes rat mutant CHRNA4 having the nucleotide sequence of SEQ ID NO: 2 in which the 865th c is substituted by t, and the 866th t is substituted by c.
- **4.** (New) The epilepsy model animal (CHRNA4:S284L) of claim 2, wherein the nonhuman animal is a rat, and the polynucleotide encodes rat mutant CHRNA4 having the nucleotide sequence of SEQ ID NO: 2 in which the 865th c is substituted by t, and the 866th t is substituted by c.